

MYCOBIOS SELECTIVE AGAR

A selective medium for the isolation of pathogenic fungi.

TYPICAL FORMULA (g/l)

Soy Peptone	10.00
Glucose	10.00
Cycloheximide	0.40
Chloramphenicol	0.05
Agar	15.00

DIRECTIONS

Suspend 35.5g in 1000ml of cold distilled water, heat to boiling and sterilise by autoclaving at 118°C for 15 minutes. Cool and use at once. Do not re-melt or overheat at any time.

WARNING: cycloheximide is extremely toxic and causes severe irritation of the skin and mucous membranes. Use with care!

Final pH 7.0 ± 0.2

DESCRIPTION

Mycobios Selective Agar is used for the isolation of pathogenic fungi from specimens with mixed flora. The medium incorporates a nutritive base, which supports good growth of both bacteria and fungi. The neutral pH permits cultivation of pathogenic fungi, which cannot grow on other media such as Sabouraud Maltose Agar because of the acid pH. The incorporation of two antibiotics, chloramphenicol and cycloheximide, makes the medium selective. The chloramphenicol inhibits bacterial growth, cycloheximide the growth of saprophytic fungi, which is far more sensitive to the action of antibiotics than pathogenic fungi. Mycobios Selective Agar is used for the isolation of both dermatophytes and fungi, which prove systemic infections. Cycloheximide also inhibits the growth of certain pathogenic fungi, such as *Cryptococcus neoformans*. The incubation temperature may modify the sensitivity of certain pathogenic fungi due to the antibiotics in the medium. For this reason, it is possible to use Mycobios Selective Agar alone in the isolation of dermatophytes. Whereas, for the isolation of fungi responsible for systemic infections it is advisable to use Mycobios Selective Agar together with other media, which do not contain antibiotics. Additionally, incubation should take place at room temperature and at 37°C.

USER QUALITY ASSURANCE

(25°C- UP TO 7 DAYS)

Productivity control

T.mentagrophytes ATCC 9533*: growth, the medium turns red-violet

C.albicans ATCC 10231*: growth

Selectivity control

E.coli ATCC 25922*: inhibited

A.niger ATCC 16404*: inhibited

*NCCLS M22-A2 recommended strains.

STORAGE

Dehydrated medium: 10-30°C

User prepared plates: 1 month at 2-8°C

REFERENCES

- Booth, C. (1971) - Methods in Microbiology, Vol. 4, London: Academic Press.
- NCCLS document M22-A2, 1996. Quality Assurance for Commercially prepared Microbiological Culture Media-2nd ed.; Approved Standard.
- Stein, R.J. (1973) - Handbook of Phycological Methods, Cambridge: University Press.

PACKAGING

4017612 Mycobios Selective Agar 500g (14.1 l)